

SUPPLY DIFFUSER & CEILING RETURN CFM TABLE			
CEILING SUPPLY DIFFUSER SAD CFM	CEILING RETURN GRILLE RAG CFM		
SIZE (OR EQUIVALENT)	CFM RANGE	12"x12" (NECK SIZE)	MAX CFM
6X6	0-100	6"	100
8X8	101-225	6X6	125
10X10	226-350	10"x10"	350
12X12	351-500	24"x24" (NECK SIZE)	200
14X14	501-680	6"	100
16X16	681-900	6X6	100
18X18	901-1120	8"	175
20X20	1121-1395	8X8	200
22X22	1396-1680	10"	270
24X24	1681-2000	10X10	350
		12"	400
		12X12	500
		14"	550
		15X15	800
		16"	700
		18X18	1100
		22X22	1700

MANUFACTURER: TITUS OR EQUIVALENT  
SUPPLY: P/MC  
RETURN: PAR

SIDEWALL DIFFUSERS			
SIZE (OR EQUIVALENT)	MAX FACE VELOCITY	MAXIMUM NC	SID CFM
8 X 6	700	25	0-100
12 X 8	700	25	101-200
18 X 8	700	25	201-300
20 X 8	700	25	301-400
24 X 8	700	25	401-500
SIZE (OR EQUIVALENT)	MAX FACE VELOCITY	MAXIMUM NC	RAG CFM
14 X 8	500	25	400
20 X 8	500	25	600
22 X 10	500	25	800
24 X 12	500	25	1000
24 X 12	500	25	1200
30 X 14	500	25	1600

MANUFACTURER: TRUAIRE OR EQUIVALENT

SUPPLY MODEL: #103

RETURN MODEL: #270

INTAKE & EXHAUST LOUVER			
INTAKE LOUVER (800FPM) CFM	FREE AREA SQ. FT.	EXHAUST LOUVER (800FPM) CFM	FREE AREA SQ. FT.
0-100	0.16	0-100	0.125
101-150	0.25	101-150	0.18
151-200	0.33	151-200	0.25
201-340	0.56	201-340	0.425
341-450	0.75	341-450	0.56
451-600	1	451-600	0.75
601-800	1.33	601-800	1
801-1000	1.66	801-1000	1.25
1001-1400	2.33	1001-1400	1.75
1401-1800	3	1401-1800	2.25
1801-2200	3.66	1801-2200	2.75

MANUFACTURER: RUSKIN OR EQUIVALENT  
GALVANIZED STEEL, STATIONARY NON-DRAIN  
LOUVER SIZE BASED ON MIN FREE AREA  
REQUIRED ABOVE.

TRANSFER GRILLE (TG)			
CFM RANGE	FREE AREA SQ. FT.	TG CFM	FREE AREA SQ. FT.
0-100	0.33	0-100	0.33
101-150	0.5	101-150	0.5
151-200	0.66	151-200	0.66
201-350	1.16	201-350	1.16
351-500	1.66	351-500	1.66
501-650	2.16	501-650	2.16
651-800	2.66	651-800	2.66
801-950	3.1	801-950	3.1

## MECHANICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED

### STANDARD MOUNTING HEIGHTS

THERMOSTATS (USER ADJUSTABLE) (TOP OF DEVICE)  
CONTROLS (TOP OF DEVICE)

USE THE DEFAULT MOUNTING HEIGHTS SHOWN ABOVE UNLESS NOTED OTHERWISE  
IN THE SPECIFICATIONS OR ELSEWHERE. MOUNTING HEIGHTS LISTED ARE ABOVE  
FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO TOP OF DEVICE.  
ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND  
LOCAL REQUIREMENTS.

### ANNOTATION

① MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT

② MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR PROVIDED  
(NO))

③ CONNECTION POINT OF NEW WORK TO EXISTING

④ DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER  
LOWER NUMBER INDICATES SHEET NUMBER

⑤ SECTION CUT DESIGNATION

### ABBREVIATIONS

A/C AIR CONDITIONING

ACCU AIR COOLED CONDENSING UNIT

ACU AIR COOLED CONDENSING UNIT

AFD ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AHJ AUTHORITY HAVING JURISDICTION

AHU AIR HANDLING UNIT

AP ACCESS PANEL

BAS BOILER

BD BACKDRAFT DAMPER

BFC BELOW FINISHED CEILING

BFL BELOW FINISHED FLOOR

BFS BELOW FINISHED GRADE

BOL BOILER

BOS BOTTOM OF STRUCTURE

BTU BOTTOM OF DUCT

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### HVAC DUCTWORK AND ACCESSORIES

BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING  
AND MANUAL VOLUME DAMPER

ELBOW WITH TURNING VANES

BRANCH DUCT WITH BELL-MOUTH FITTING & MANUAL VOLUME  
DAMPER

RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP

RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN

SUPPLY AIR DUCT UP

SUPPLY AIR DUCT DOWN

EQUIPMENT WITH FLEXIBLE DUCT CONNECTION

SAD XXX (CFM OF SUPPLY DIFFUSER OR REGISTER)

RG XXX (CFM OF EXHAUST GRILLE)

MANUAL VOLUME DAMPER

SQUARE TO ROUND TRANSITION

DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY, RD=RETURN)

RISER DESIGNATION

FIRE DAMPER

COMBINATION FIRE SMOKE DAMPER

SMOKE DAMPER

VOLUME DAMPER

MOTORIZED DAMPER

BACKDRAFT DAMPER

ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS REFER TO  
DUCTWORK SPECIFICATIONS FOR DUCTWORK INSULATION AND LINER INFORMATION.

### HVAC CONTROL DEVICES

H HUMIDISTAT

T THERMOSTAT

C CARBON MONOXIDE SENSOR

CD CARBON DIOXIDE SENSOR

D DIFFERENTIAL PRESSURE

F FLOW SWITCH

H HUMIDITY SENSOR

P PULL STATION

S STATIC PRESSURE

T TEMPERATURE SENSOR

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES.

2019 CALIFORNIA BUILDING CODE (CBC)

2019 CALIFORNIA MECHANICAL CODE (CMC)

2019 CALIFORNIA ELECTRICAL CODE (CEC)

2019 CALIFORNIA PLUMBING CODE (CPC)

2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (BEES)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS & SITE VISITS AND MAY  
NOT REFLECT EXACT AS-BUILT CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS  
PRIOR TO SUBMITTING FINAL BID. CAREFULLY COORDINATE NEW WORK AND DEMOLITION  
WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

SCOPE OF WORK:

PROVIDE A NEW EXHAUST FAN TO NEW KITCHENETTE FOR HOMELESS  
HOUSING

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS & SITE VISITS AND MAY  
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2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (BEES)

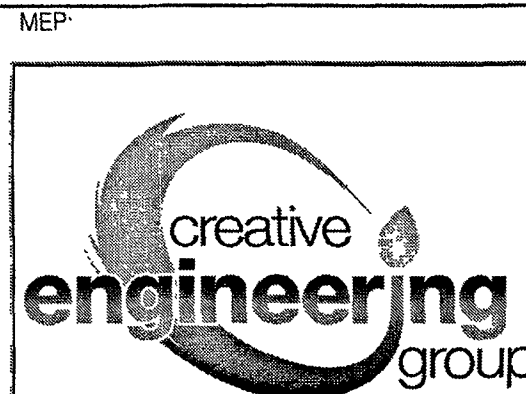
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)

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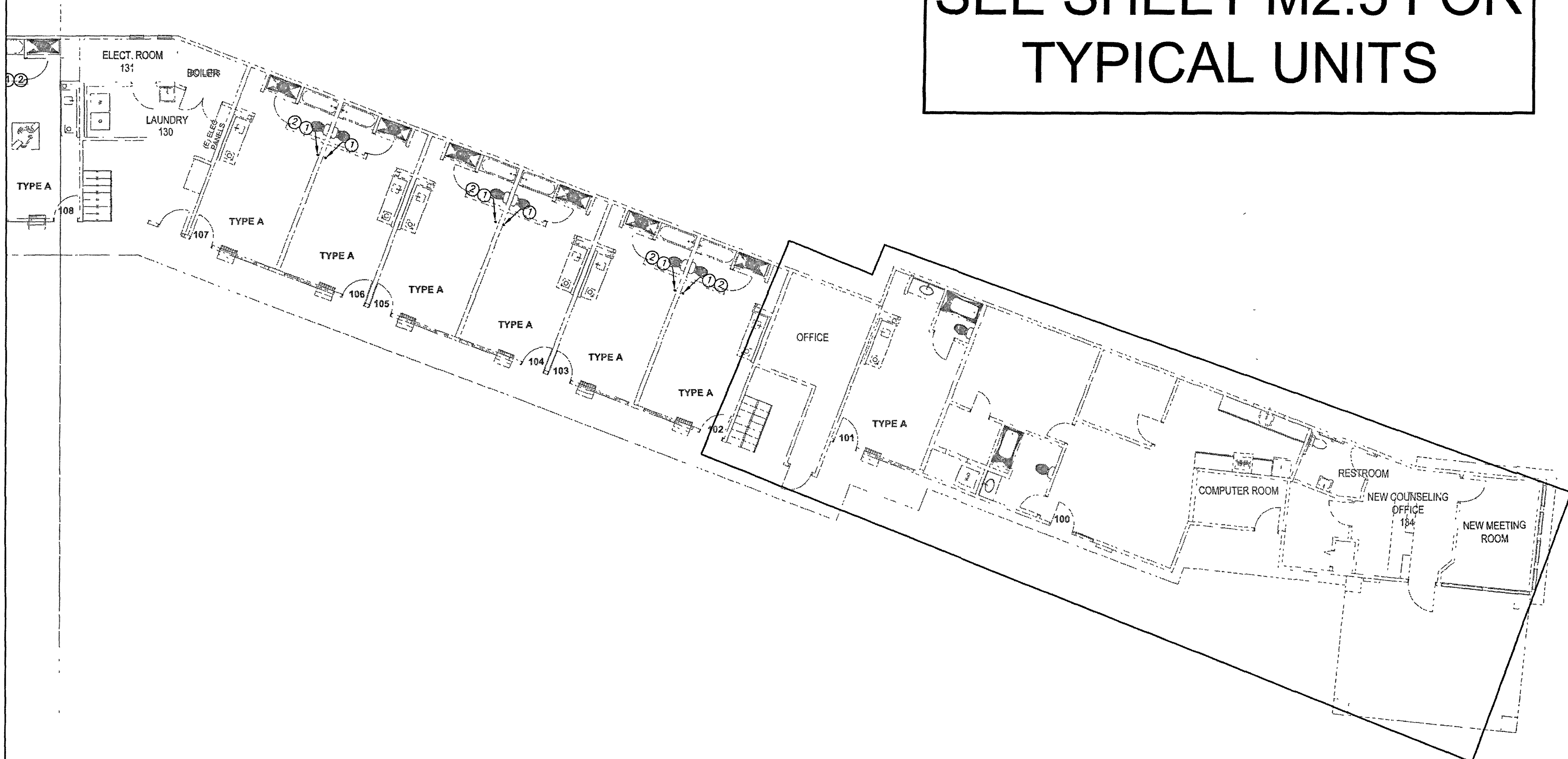
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KING CITY, CA 93930



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7123 REMMET AVE.  
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PHONE: (818) 999-0415  
FAX: (818)

SEE SHEET M2.5 FOR  
TYPICAL UNITS



SEE SHEET M2.6

MECHANICAL SPECIFIC NOTES:

1. INSTALL FAN PER MANUFACTURER RECOMMENDATIONS.
2. ENVIRONMENTAL EXHAUST OUTLETS SHALL TERMINATE NO LESS THAN 3 FEET FROM PROPERTY LINE, 3 FEET FROM OPENINGS INTO BUILDING, AND 10 FEET FROM MECHANICAL AIR INTAKE.

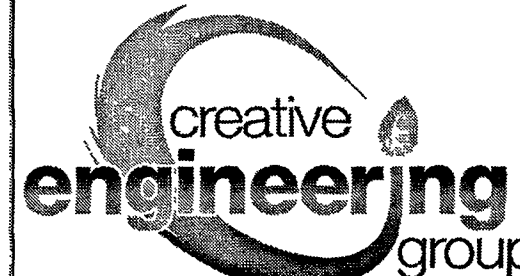
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ISSUE DATES

DESCRIPTION	DATE
MEP REVISION	02/28/2023

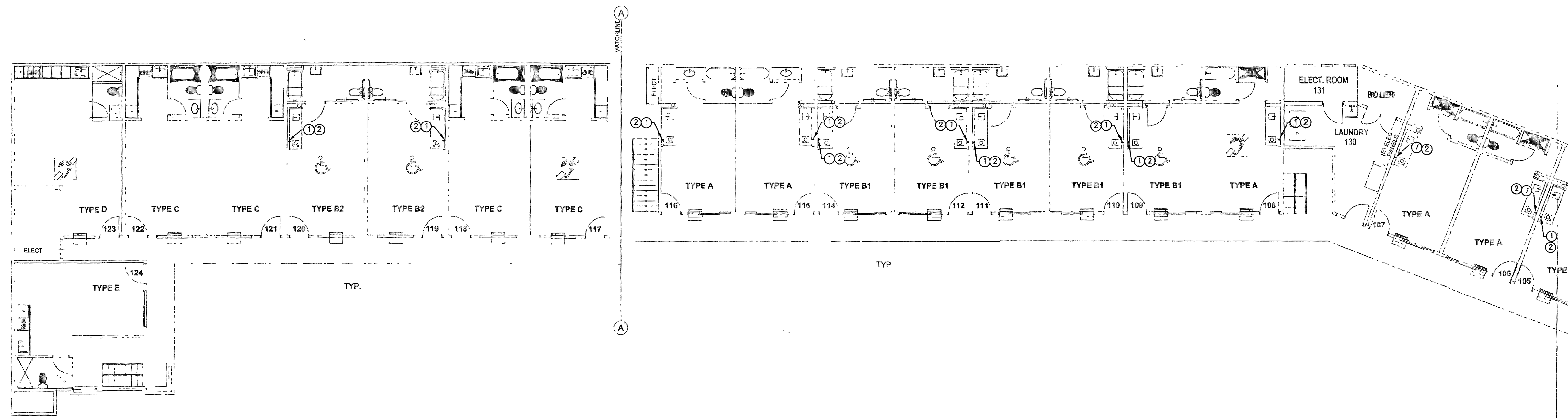
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SCALE: AS SHOWN  
DRAWN: CEG  
DATE: 02/28/2023  
SHEET TITLE:

ENLARGED-1  
FIRST FLOOR  
HVAC PLAN

SHEET NO:

M-2.0





○ MECHANICAL SPECIFIC NOTES:

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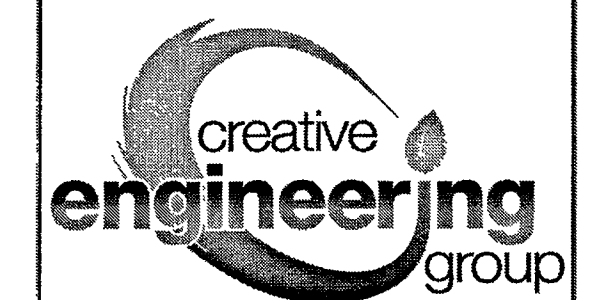
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ISSUE DATES

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JOB:

SCALE AS SHOWN

DRAWN: CEG

DATE: 02/28/2023

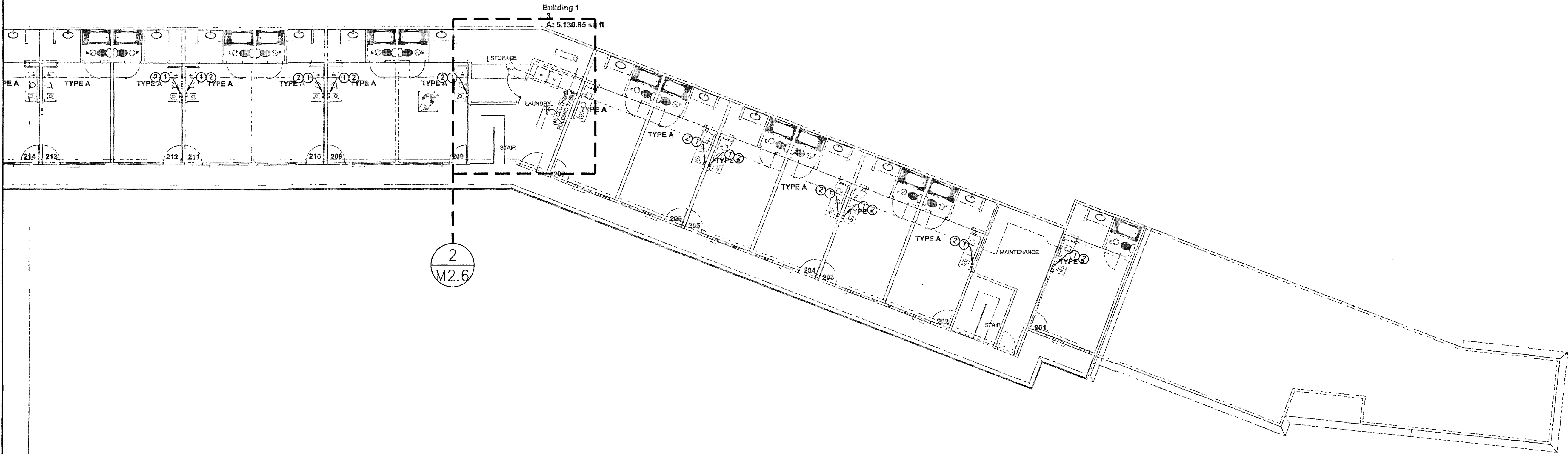
SHEET TITLE

ENLARGED-2  
FIRST FLOOR  
HVAC PLAN

SHEET NO.

M-2.1

SEE SHEET M2.5 FOR  
TYPICAL UNITS



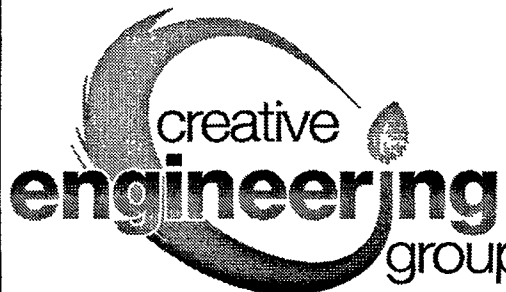
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SEE SHEET M2.5 FOR  
TYPICAL UNITS

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ISSUE DATES

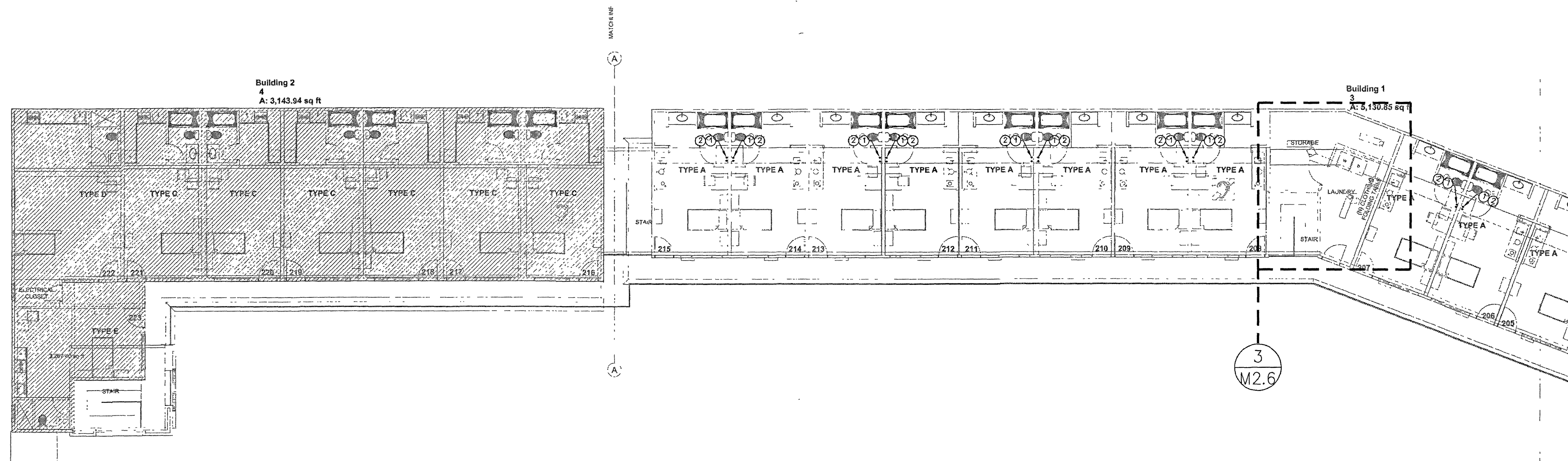
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MEP REVISION	02/28/2023

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SCALE: AS SHOWN  
DRAWN: CEG  
DATE: 02/28/2023  
SHEET TITLE

**ENLARGED-3  
SECOND FLOOR  
HVAC PLAN**

SHEET NO.

**M-2.2**



# MECHANICAL SPECIFIC NOTES:

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## NOTICE

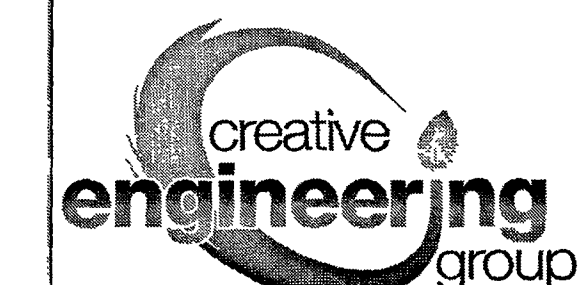
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SEE SHEET M2.5 FOR  
TYPICAL UNITS

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## ISSUE DATES

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MEP REVISION	02/28/2023

JOB

SCALE AS SHOWN

DRAWN CEG

DATE 02/28/2023

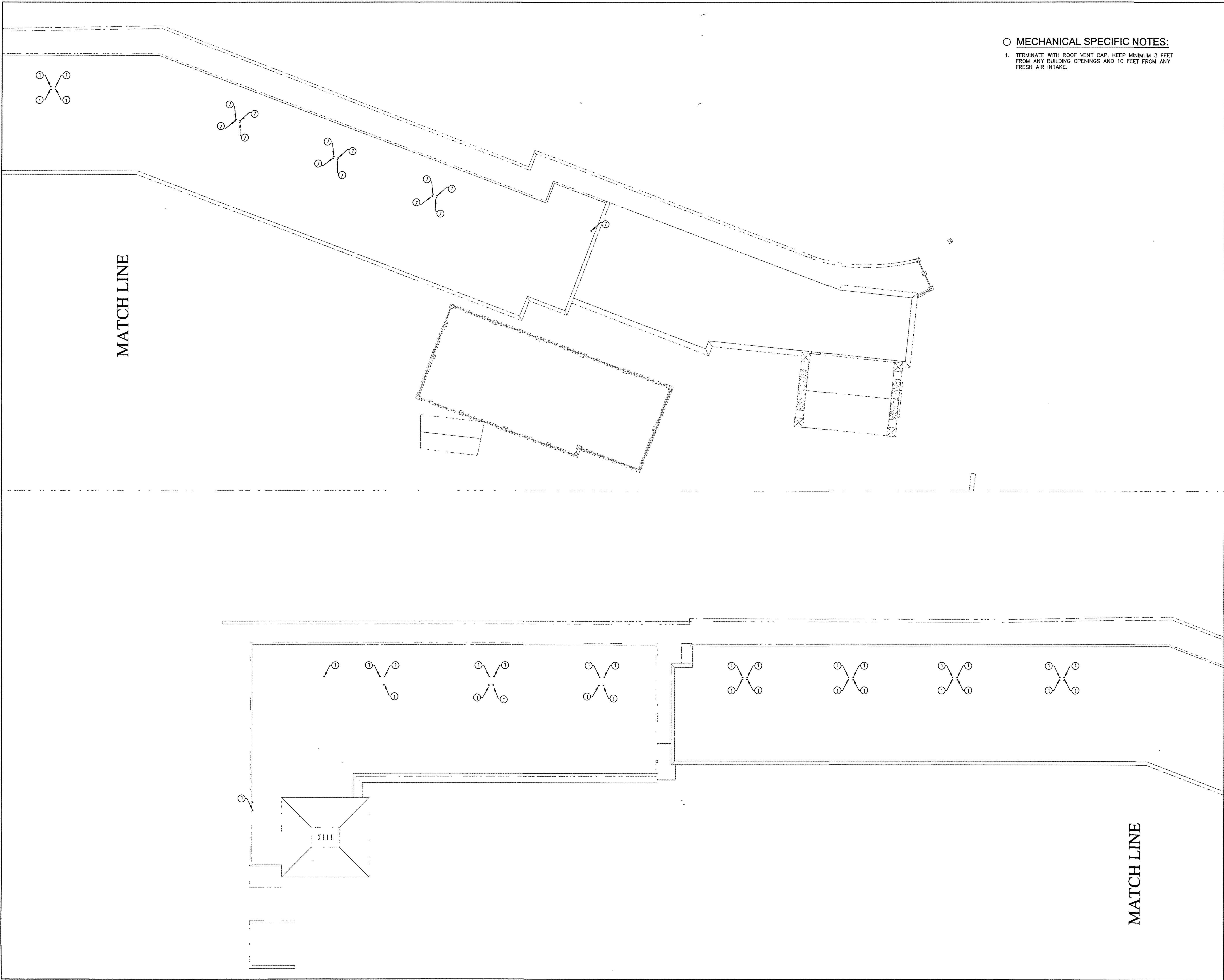
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ENLARGED-4  
SECOND FLOOR  
HVAC PLAN

SHEET NO.

M-2.3



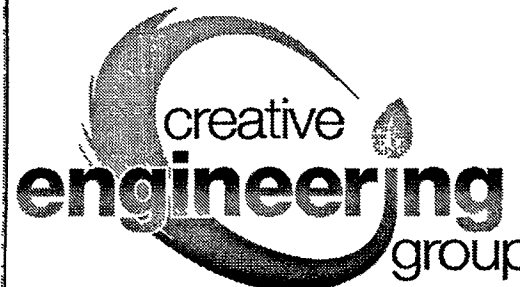


- MECHANICAL SPECIFIC NOTES:
1. TERMINATE WITH ROOF VENT CAP, KEEP MINIMUM 3 FEET FROM ANY BUILDING OPENINGS AND 10 FEET FROM ANY FRESH AIR INTAKE.

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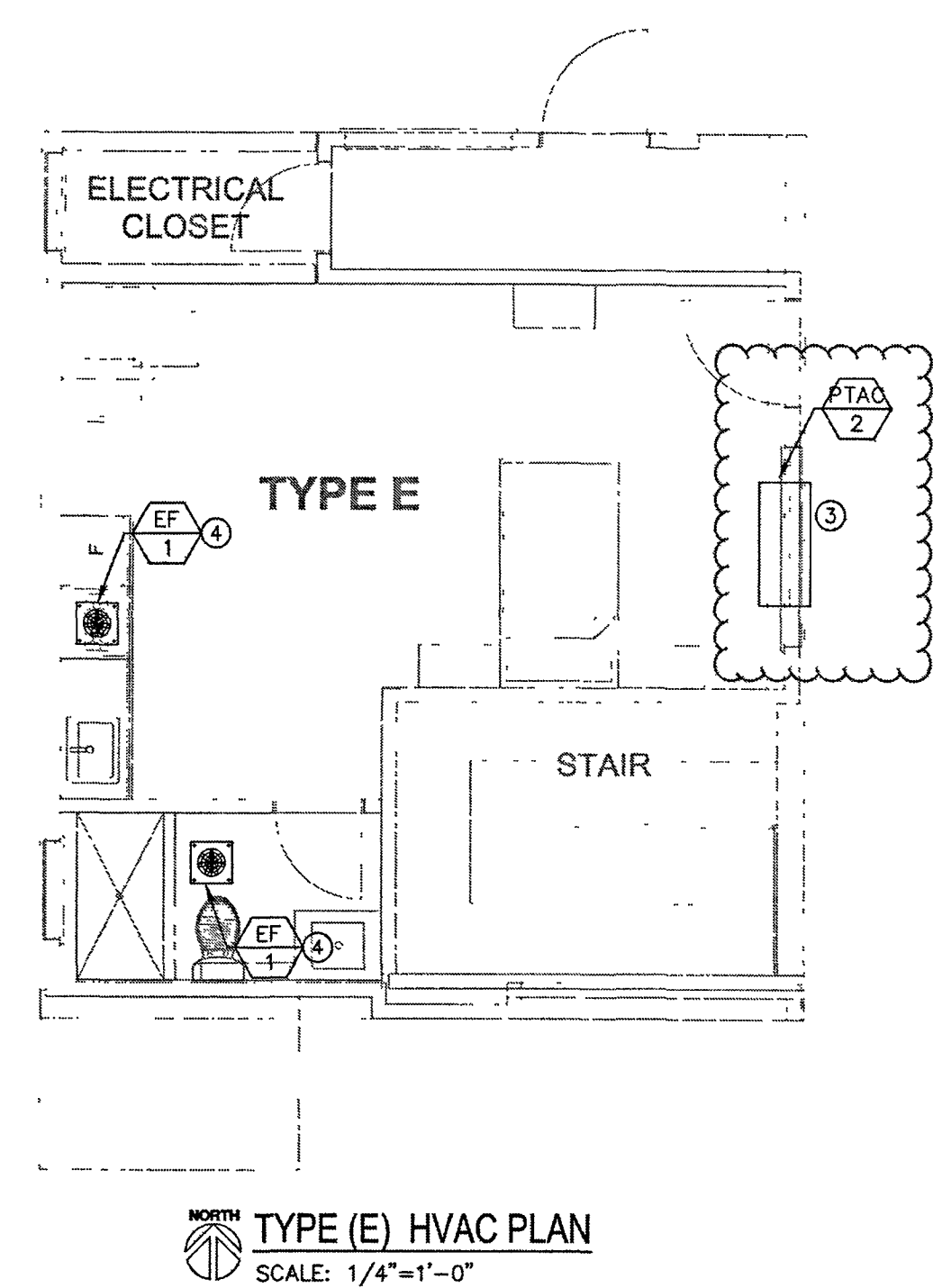
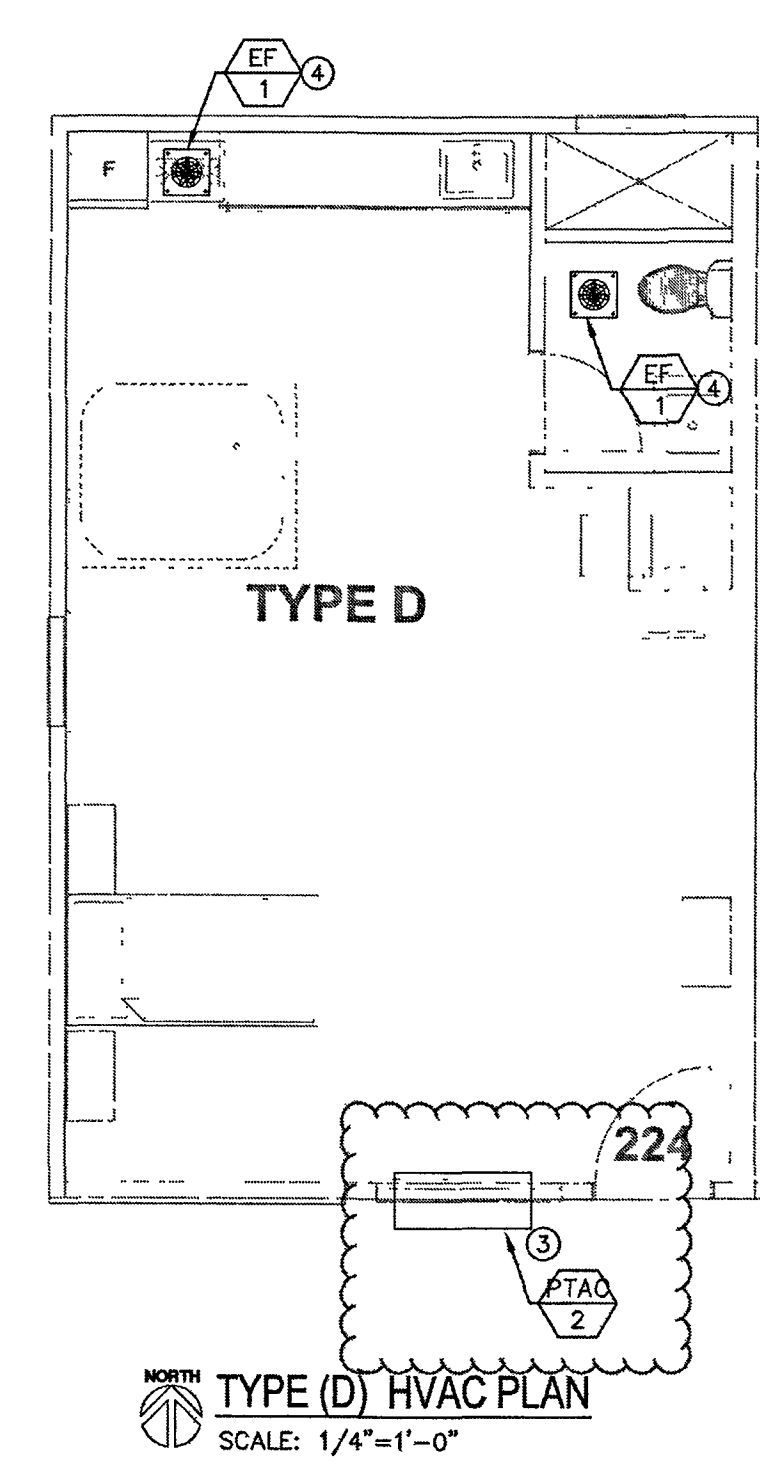
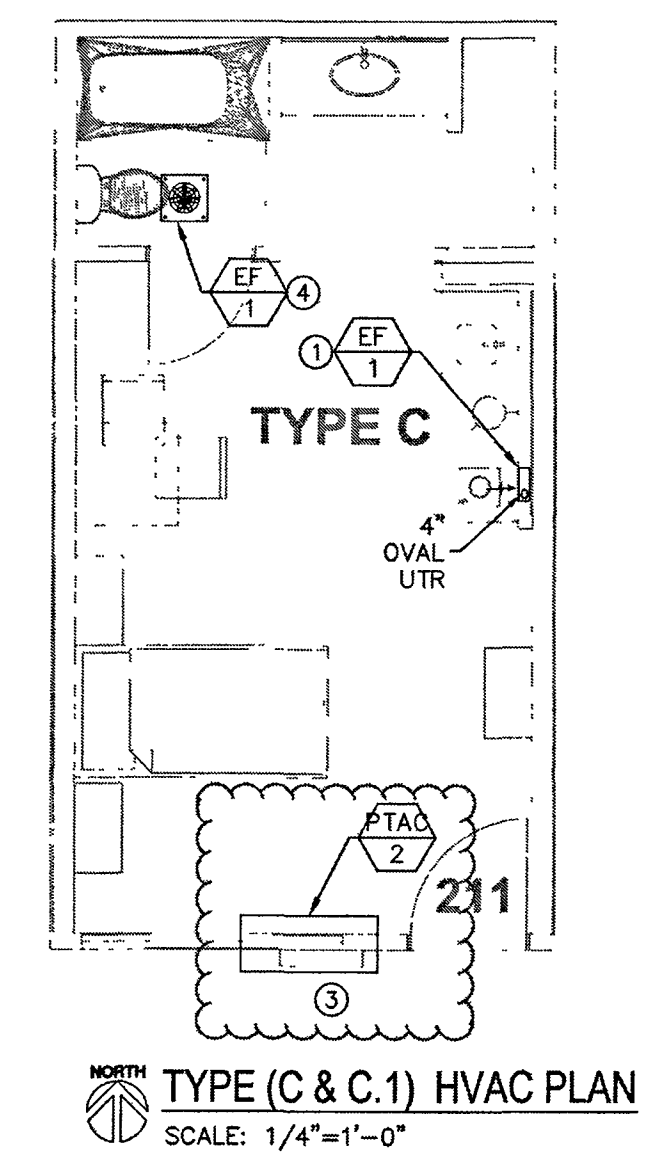
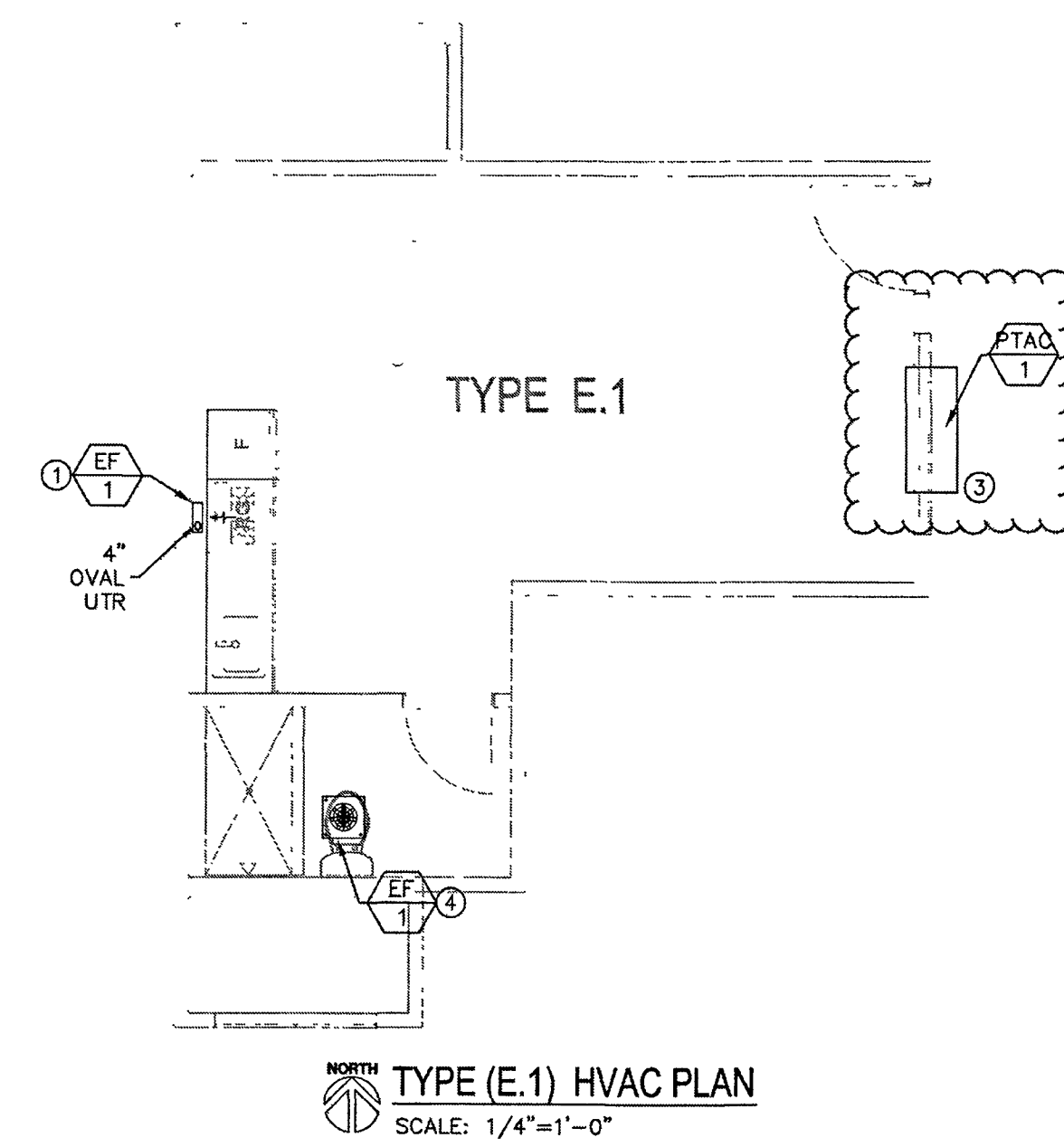
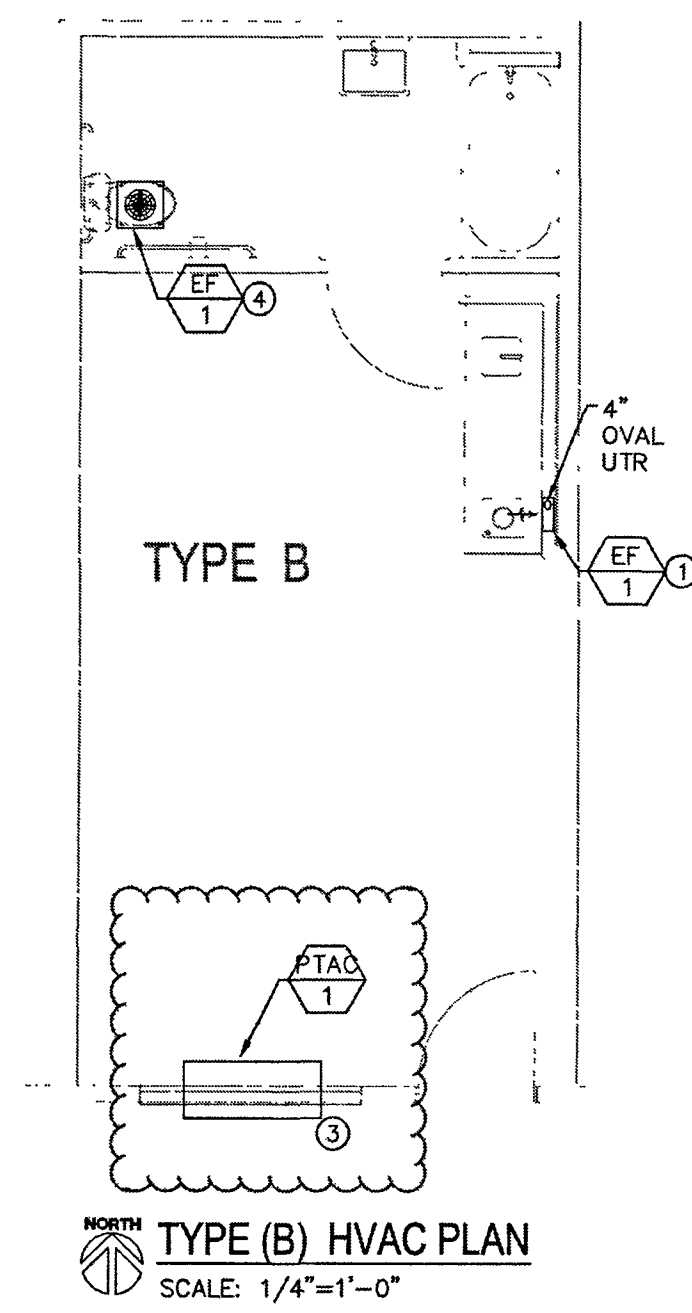
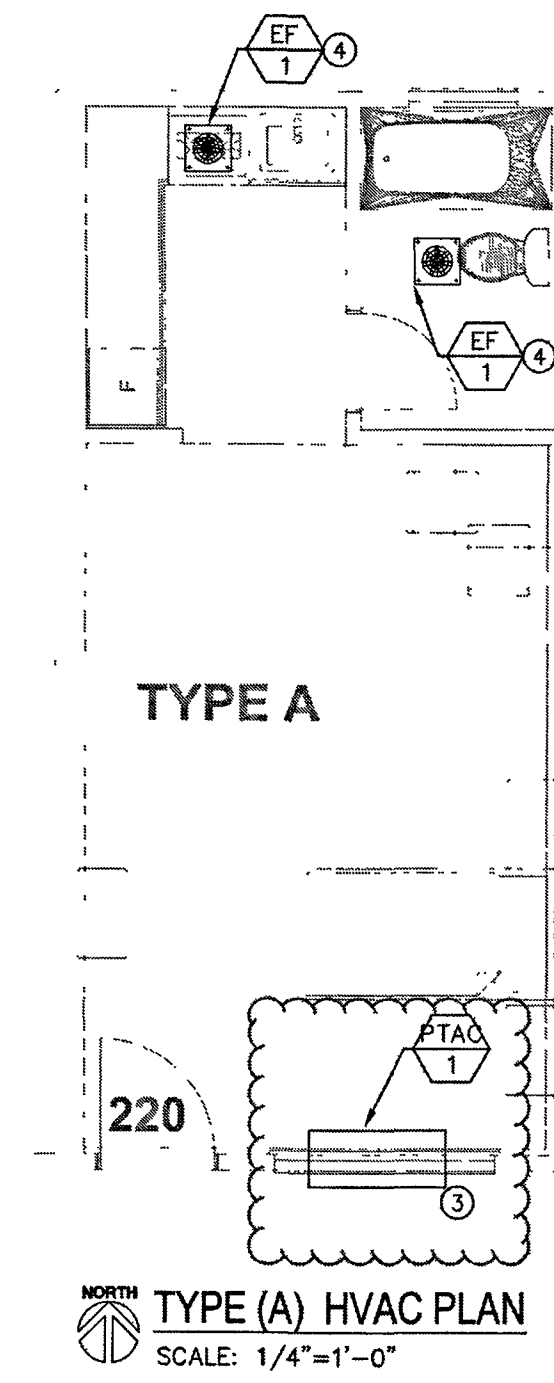


ISSUE DATES	
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JOB	
SCALE	AS SHOWN
DRAWN	CEG
DATE	02/28/2023
SHEET TITLE	

**ROOF FLOOR  
HVAC PLAN**

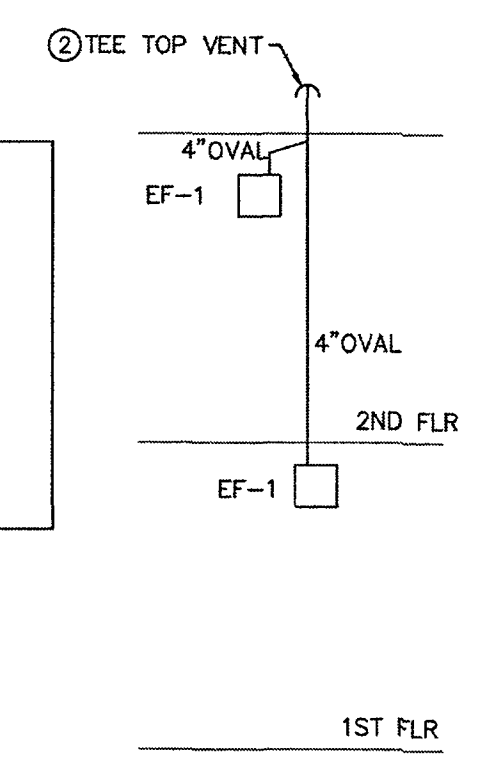
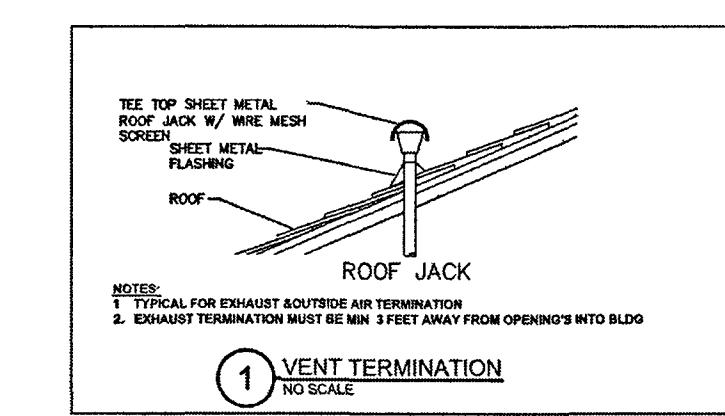
SHEET NO

**M-2.4**



**MECHANICAL SPECIFIC NOTES:**

1. INSTALL FAN PER MANUFACTURER RECOMMENDATIONS.
2. TERMINATE WITH ROOF VENT CAP, KEEP MINIMUM 3 FEET FROM ANY BUILDING OPENINGS AND 10 FEET FROM ANY FRESH AIR INTAKE.
3. NEW PTAC UNIT SHALL BE REPLACED PER EQUIPMENT SCHEDULE MATCH THE EXISTING OPENING.
4. NEW EXHAUST FAN PER SCHEDULE, CONNECT TO EXISTING EXHAUST DUCTING WHERE OCCURS.



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**DAYS INN KING CITY HOSPITALITY**  
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**creative engineering group**

**CREATIVE ENGINEERING GROUP**

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SEAL AND STAMP



ISSUE DATES	
DESCRIPTION	DATE
MEP REVISION	02/28/2023
JOB	
SCALE	AS SHOWN
DRAWN	CEG
DATE	02/28/2023
SHEET TITLE	

**TYPICAL UNITS HVAC PLAN**

SHEET NO:

**M-2.5**

## NOTICE

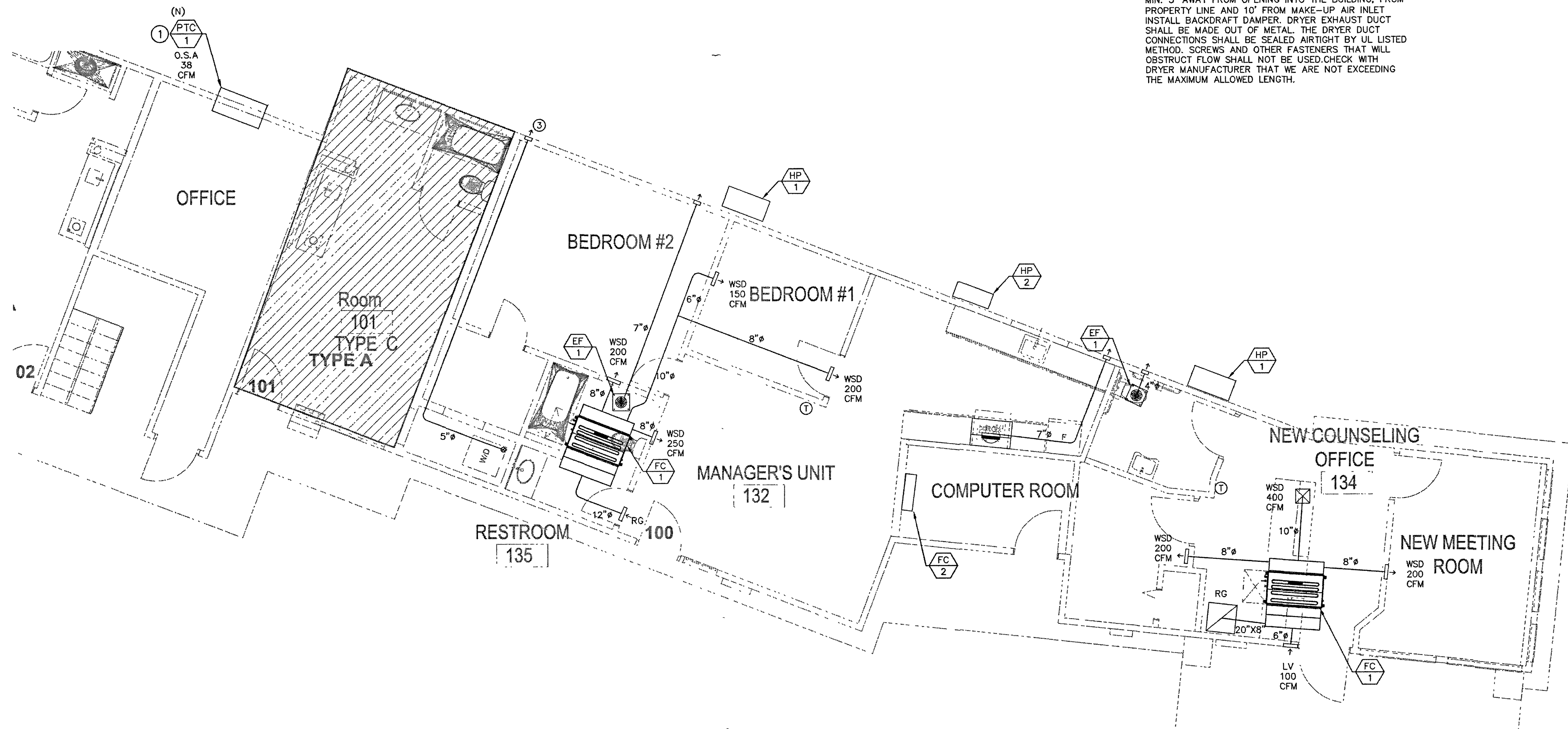
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## DAYS INN KING CITY HOSPITALITY

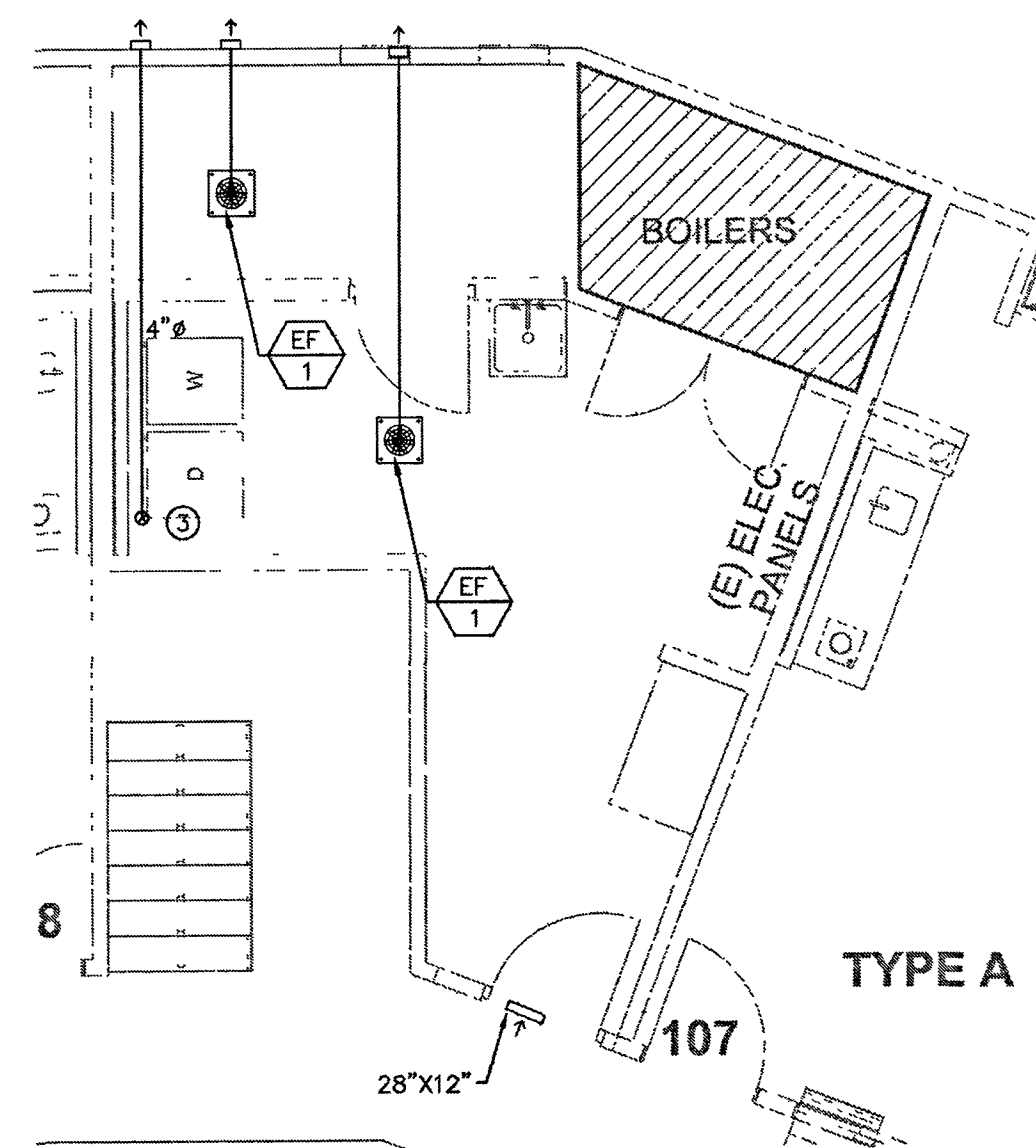
1130 BROADWAY STREET  
KING CITY, CA 93930

### MECHANICAL SPECIFIC NOTES:

1. INSTALL FAN PER MANUFACTURER RECOMMENDATIONS.
2. TERMINATE WITH ROOF VENT CAP. KEEP MINIMUM 3 FEET FROM ANY BUILDING OPENINGS AND 10 FEET FROM ANY FRESH AIR INTAKE.
3. RELOCATED TYPE I DOMESTIC DRYER: TERMINATE DRYER EXHAUST VENT WITHOUT WIRE MESH, MIN. 3' AWAY FROM OPENING INTO THE BUILDING, FROM PROPERTY LINE AND 10' FROM MAKE-UP AIR INLET. INSTALL BACKDRAFT DAMPER. DRYER EXHAUST DUCT SHALL BE MADE OUT OF METAL. THE DRYER DUCT CONNECTIONS SHALL BE SEALED AIRTIGHT BY UL LISTED METHOD. SCREWS AND OTHER FASTENERS THAT WILL OBSTRUCT FLOW SHALL NOT BE USED. CHECK WITH DRYER MANUFACTURER THAT WE ARE NOT EXCEEDING THE MAXIMUM ALLOWED LENGTH.



1-MANAGER'S UNIT & OFFICE HVAC PLAN  
SCALE: 1/4"=1'-0"



2-FIRST FLOOR LAUNDRY ROOM  
SCALE: 1/4"=1'-0"

### COMBUSTION, MAKE UP AND VENTILATION AIR CALC. -

One opening - [BTU/H OF DRYERS]/(3,000 BTU/H)

COMBUSTION AIR OPENING SIZE (ONE OPENING TO OUTDOOR):

BTU/H OF DRYERS (BTU/H)	DRYERS NUMBER	COMB. AIR FREE AREA SQ. IN.
215,000	1	71.67

COMBUSTION AIR OPENING AREA = 71.67 SQ. IN. FREE AREA

MAKE UP AIR OPENING SIZE:

DRYERS MAKE UP AIR (CFM)	DRYERS NUMBER	MAKE UP AIR FREE AREA SQ. IN.
220	1	52.80

MAKE UP AIR OPENING AREA = 52.80 SQ. IN. FREE AREA

VENTILATION AIR OPENING SIZE:

LAUNDRY ROOM DIM.	REQUIRED (CFM)	VENTILATION AIR FREE AREA SQ. IN.
Area Height ACH	200 8 133	32.00

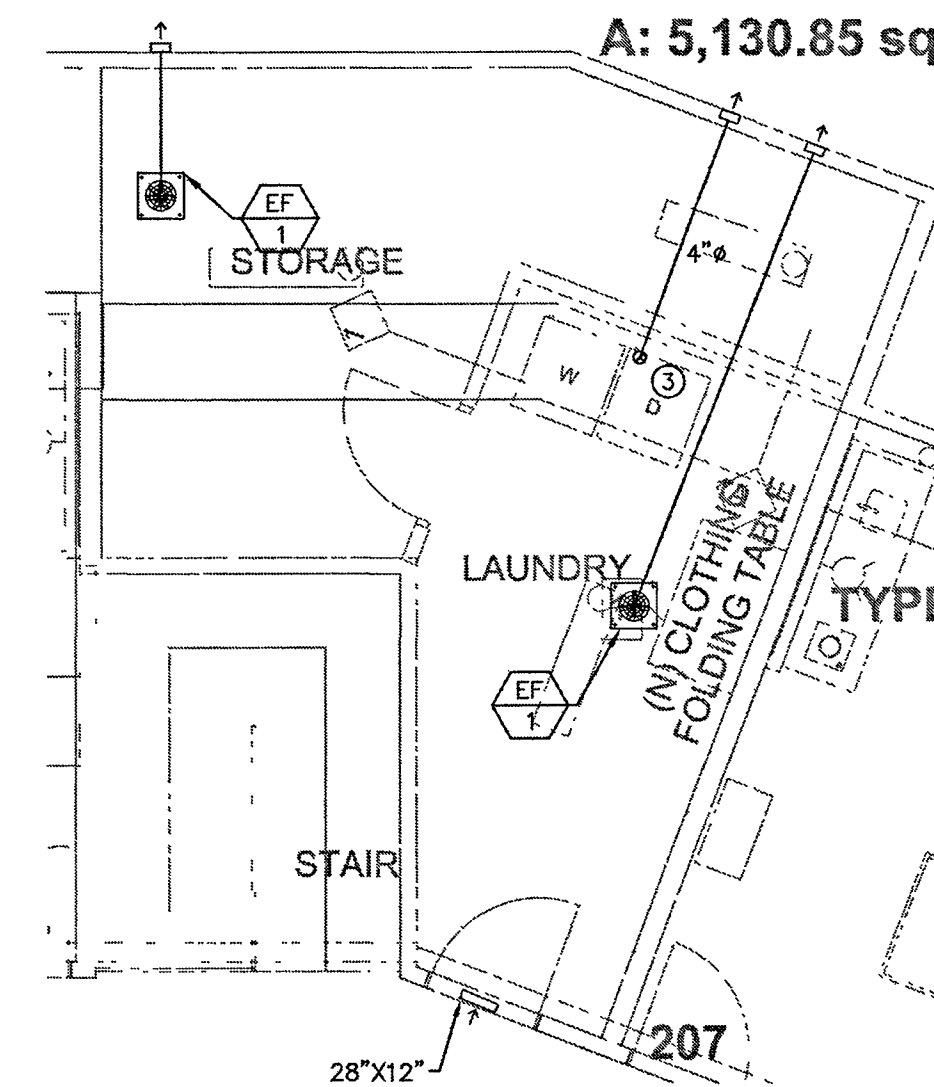
ROOM VENTILATION OPENING AREA = 32 SQ. IN. FREE AREA

LOUVER SIZE:

TOTAL FREE AREA SQ. IN.	LOUVER FREE AREA	LOUVER SIZE SQ. IN.
157	50%	314

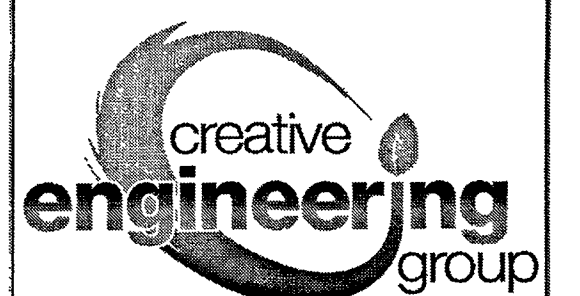
MIN. OSA LOUVER SIZE = 314 SQ. IN. TOTAL AREA  
LOUVER SIZE 27 X 12 INCH

Building 1  
3  
A: 5,130.85 sq'



3-SECOND FLOOR LAUNDRY ROOM  
SCALE: 1/4"=1'-0"

MEP:



CREATIVE  
ENGINEERING  
GROUP

7123 REMMET AVE.  
CANOGA PARK, CA 91303  
PHONE: (818) 999-0415  
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SEAL AND STAMP



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## TYPICAL UNITS HVAC PLAN

SHEET NO

M-2.6